

Practitioner's Docket No. 013743.0104PTUS

CHAPTER II

Preliminary Classification:

Proposed Class: Unknown  
Subclass: Unknown

TRANSMITTAL LETTER  
TO THE UNITED STATES ELECTED OFFICE (EO/US)

(ENTRY INTO U.S. NATIONAL PHASE UNDER CHAPTER II)

PCT/US2003/013125	28 April 2003	27 April 2002
International Application Number	International Filing Date	International Earliest Priority Date

TITLE OF INVENTION: **Nanocomposite Ceramics Of Oxide And Non-Oxide Phases And Methods For Producing Same**

APPLICANTS: Rishi Raj, Atanu Saha, Sandeep Shah

Mail Stop PCT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450  
ATTENTION:EO/US

1. Applicant herewith submits to the United States Elected Office (EO/US) the following items under 35 U.S.C. Section 371:

- a. This express request to immediately begin national examination procedures (35 U.S.C. Section 371(f)).
- b. The U.S. National Fee (35 U.S.C. Section 371(c)(1)) and other fees (37 C.F.R. Section 1.492) as indicated below:

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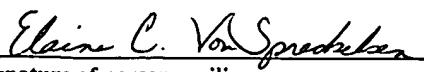
**CERTIFICATION UNDER 37 C.F.R. SECTION 1.10\***

*(Express Mail label number is mandatory.)*

*(Express Mail certification is optional.)*

I hereby certify that this paper, along with any document referred to, is being deposited with the United States Postal Service on this date October 14, 2004 in an envelope as "Express Mail Post Office to Addressee," mailing Label Number EV389084492US, addressed to Mail Stop PCT, Commissioner For Patents, P.O. Box 1450, Alexandria, VA 22313-1450, ATTENTION: EO/US.

Elaine C. VonSpreckelsen  
(type or print name of person mailing paper)

  
Signature of person mailing paper

## 2. Fees

CLAIMS FEE*	(1) FOR	(2) NUMBER FILED	(3) NUMBER EXTRA	(4) RATE	(5) CALC-ULATIONS
	TOTAL CLAIMS	45 -20 =	25	x \$18.00 =	\$450.00
	INDEPENDENT CLAIMS	6 - 3 =	3	x \$88.00 =	\$264.00
	MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$280.00				
	U.S. PTO WAS NOT INTERNATIONAL PRELIMINARY EXAMINATION AUTHORITY Where no international preliminary examination fee as set forth in Section 1.482 has been paid to the U.S. PTO, and payment of an international search fee as set forth in Section 1.445(a)(2) to the U.S. PTO: where a search report on the international application has been prepared by the European Patent Office or the Japanese Patent Office (37 C.F.R. Section 1.492(a)(5)) \$920.00				
	Total of above Calculations				
	Reduction by 1/2 for filing by small entity, if applicable				
	Subtotal				
	Total National Fee				
	Fee for recording the enclosed assignment document \$40.00 (37 C.F.R. Section 1.21(h)). See attached "ASSIGNMENT COVER SHEET".				
TOTAL	Total Fees enclosed				

Please charge Account No. 50-1848 in the amount of \$952.00.

3. A Combined Declaration And Power Of Attorney signed by the Inventors is enclosed.
4. A Recordation Cover Sheet (Form PTO-1595) and PCT Assignment by the Inventors are transmitted herewith.
- II. Other document(s) or information included:
  5. A full International Search Report (PCT/ISA/220) or Declaration under PCT Article 17(2)(a) has not yet been received. However, an Invitation to Pay Additional Fees Form PTO/ISA/206, including a partial search report, is transmitted herewith.
  6. An Information Disclosure Statement (Form PTO/SB/08B) under 37 C.F.R. Sections 1.97 and 1.98 is transmitted herewith.

7. Additional documents:
  - a. International Publication No. WO 2003/093193 A2, including specification, claims, and drawings
  - b. Preliminary Amendment
  - c. Application Data Sheet
  - d. Fee Transmittal
  - e. Express Mail Certificate
  - f. Return receipt postcard
8. The above items are being transmitted before 30 months from any claimed priority date.

No international examination report (PCT/IPEA/409) has yet been transmitted, but will be forwarded when received.

#### **AUTHORIZATION TO CHARGE ADDITIONAL FEES**

The Commissioner is hereby authorized to charge the following additional fees that may be required by this paper and during the entire pendency of this application to Account No. 50-1848.

37 C.F.R. Section 1.492(a)(1), (2), (3), and (4) (filing fees)  
37 C.F.R. Section 1.492(b), (c), and (d) (presentation of extra claims)  
37 C.F.R. Section 1.17 (application processing fees)  
37 C.F.R. Section 1.17(a)(1)-(5) (extension fees pursuant to Section 1.136(a))  
37 C.F.R. Section 1.492(e) and (f) (surcharge fees for filing the declaration and/or filing an English translation of an International Application later than 20 months after the priority date).

Date: 10/14/04

Reg. No.: 28,494  
Tel. No.: 303-894-6114  
Fax No.: 303-894-9239



\_\_\_\_\_  
Signature of Practitioner  
Carl A. Forest  
Customer No.: 24283

## Certificate of Mailing under 37 CFR 1.10

Application Number	Applied For
Filing Date	Herewith
First Named Inventor	Rishi Raj
Examiner Name	Unknown
Attorney Docket Number	013743.0104PTUS

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage in an Express Mail envelope bearing label number: EV389084492US addressed to:

Mail Stop PCT  
 Commissioner For Patents  
 P.O. Box 1450  
 Alexandria, VA 22313-1450

Attention: EO/US

On October 14, 2004.  
 (Date)

Elaine C. VonSpreckelsen

Signature

Elaine C. VonSpreckelsen

Typed or printed name of person signing Certificate

Note: Each paper must have its own certificate of mailing, or this certificate must identify each submitted paper.

Documents submitted with this Certificate of Mailing if more than one:

1.	Transmittal Letter To The United States Elected Office (3 pages)
2.	Fee Transmittal Form PTO/SB/17 (2 for a total of 2 pages)
3.	Preliminary Amendment (8 pages)
4.	Copy of International Publication No. WO 03/093193 A2, including specification, claims, and drawings (22 pages)
5.	Combined Declaration And Power Of Attorney (2 pages)
6.	Application Data Sheet (4 pages)
7.	Recordation Form Cover Sheet Form PTO-1595 (1 page)
8.	PCT Assignment (3 pages)
9.	Copy of Invitation To Pay Additional Fees Form PCT/ISA/206, including partial search report (6 pages)
10.	Information Disclosure Statement Form PTO/SB/08b (1 page)
11.	Copies of IDS References (3 Other)
12.	Return Receipt Postcard

# FEE TRANSMITTAL for FY 2005

Effective 10/01/2004. Patent fees are subject to annual revision.

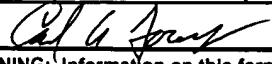
 Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$ 952)

DT05 Read PTO/PTO 14 OCT 2004

Application Number	Applied For
Filing Date	Herewith
First Named Inventor	Rishi Raj
Examiner Name	Unknown
Art Unit	Unknown
Attorney Docket No.	013743.0104PTUS

METHOD OF PAYMENT (check all that apply)				FEE CALCULATION (continued)																																																																																																																																																																																																				
<input type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money <input type="checkbox"/> Other <input type="checkbox"/> None <input checked="" type="checkbox"/> Order <input checked="" type="checkbox"/> Deposit Account: Deposit Account Number 50-1848  Deposit Account Name Patton Boggs LLP				<b>3. ADDITIONAL FEES</b> <table border="1"> <thead> <tr> <th>Large Entity</th> <th>Small Entity</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>Fee Code</td> <td>Fee (\$)</td> <td>Fee Code</td> <td>Fee (\$)</td> </tr> <tr> <td>1051</td> <td>130</td> <td>2051</td> <td>65</td> <td>Surcharge - late filing fee or oath</td> <td></td> </tr> <tr> <td>1052</td> <td>50</td> <td>2052</td> <td>25</td> <td>Surcharge - late provisional filing fee or cover sheet.</td> <td></td> </tr> <tr> <td>1053</td> <td>130</td> <td>1053</td> <td>130</td> <td>Non-English specification</td> <td></td> </tr> <tr> <td>1812</td> <td>2,520</td> <td>1812</td> <td>2,520</td> <td>For filing a request for ex parte reexamination</td> <td></td> </tr> <tr> <td>1804</td> <td>920*</td> <td>1804</td> <td>920*</td> <td>Requesting publication of SIR prior to Examiner action</td> <td></td> </tr> <tr> <td>1805</td> <td>1,840*</td> <td>1805</td> <td>1,840*</td> <td>Requesting publication of SIR after Examiner action</td> <td></td> </tr> <tr> <td>1251</td> <td>110</td> <td>2251</td> <td>55</td> <td>Extension for reply within first month</td> <td></td> </tr> <tr> <td>1252</td> <td>430</td> <td>2252</td> <td>215</td> <td>Extension for reply within second month</td> <td></td> </tr> <tr> <td>1253</td> <td>980</td> <td>2253</td> <td>490</td> <td>Extension for reply within third month</td> <td></td> </tr> <tr> <td>1254</td> <td>1,530</td> <td>2254</td> <td>765</td> <td>Extension for reply within fourth month</td> <td></td> </tr> <tr> <td>1255</td> <td>2,080</td> <td>2255</td> <td>1,040</td> <td>Extension for reply within fifth month</td> <td></td> </tr> <tr> <td>1401</td> <td>340</td> <td>2401</td> <td>170</td> <td>Notice of Appeal</td> <td></td> </tr> <tr> <td>1402</td> <td>340</td> <td>2402</td> <td>170</td> <td>Filing a brief in support of an appeal</td> <td></td> </tr> <tr> <td>1403</td> <td>300</td> <td>2403</td> <td>150</td> <td>Request for oral hearing</td> <td></td> </tr> <tr> <td>1451</td> <td>1,510</td> <td>1451</td> <td>1,510</td> <td>Petition to institute a public use proceeding</td> <td></td> </tr> <tr> <td>1452</td> <td>110</td> <td>2452</td> <td>55</td> <td>Petition to revive - unavoidable</td> <td></td> </tr> <tr> <td>1453</td> <td>1,370</td> <td>2453</td> <td>685</td> <td>Petition to revive - unintentional</td> <td></td> </tr> <tr> <td>1501</td> <td>1,370</td> <td>2501</td> <td>685</td> <td>Utility issue fee (or reissue)</td> <td></td> </tr> <tr> <td>1502</td> <td>490</td> <td>2502</td> <td>245</td> <td>Design issue fee</td> <td></td> </tr> <tr> <td>1503</td> <td>660</td> <td>2503</td> <td>330</td> <td>Plant issue fee</td> <td></td> </tr> <tr> <td>1460</td> <td>130</td> <td>1460</td> <td>130</td> <td>Petitions to the Commissioner</td> <td></td> </tr> <tr> <td>1807</td> <td>50</td> <td>1807</td> <td>50</td> <td>Processing fee under 37 CFR 1.17 (q)</td> <td></td> </tr> <tr> <td>1806</td> <td>180</td> <td>1806</td> <td>180</td> <td>Submission of Information Disclosure Stmt</td> <td></td> </tr> <tr> <td>8021</td> <td>40</td> <td>8021</td> <td>40</td> <td>Recording each patent assignment per property (times number of properties)</td> <td>40</td> </tr> <tr> <td>1809</td> <td>790</td> <td>2809</td> <td>395</td> <td>Filing a submission after final rejection (37 CFR § 1.129(a))</td> <td></td> </tr> <tr> <td>1810</td> <td>790</td> <td>2810</td> <td>395</td> <td>For each additional invention to be examined (37 CFR § 1.129(b))</td> <td></td> </tr> <tr> <td>1801</td> <td>790</td> <td>2801</td> <td>395</td> <td>Request for Continued Examination (RCE)</td> <td></td> </tr> <tr> <td>1802</td> <td>900</td> <td>1802</td> <td>900</td> <td>Request for expedited examination of a design application</td> <td></td> </tr> <tr> <td colspan="4">Other fee (specify) (1613) National Phase Fee filing with EPO search report</td> <td>555</td> </tr> <tr> <td colspan="4">*Reduced by Basic Filing Fee Paid</td> <td colspan="2">SUBTOTAL (3) (\$ 595)</td> </tr> <tr> <td colspan="6">**or number previously paid, if greater; 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<b>2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE</b> <table border="1"> <thead> <tr> <th>Total Claims</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>45</td> <td>-20 **</td> <td>= 25</td> <td>X 9 = 225</td> </tr> <tr> <td>Independent Claims</td> <td>6</td> <td>-3 **</td> <td>= 3 X 44 = 132</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td>X 0 = 0</td> </tr> </tbody> </table>				Total Claims	Extra Claims	Fee from below	Fee Paid	45	-20 **	= 25	X 9 = 225	Independent Claims	6	-3 **	= 3 X 44 = 132	Multiple Dependent			X 0 = 0	<b>SUBTOTAL (2) (\$ 357)</b>																																																																																																																																																																																				
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SUBMITTED BY		Complete (if applicable)		
Name (Print/Type)	Carl A. Forest	Registration No. (Attorney/Agent)	28,494	Telephone 303-894-6114
Signature			Date	October 14, 2004

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing this form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.